FAYZULLIN, F.F.; KOCHMAN, E.D.

Oscillographic study of the cathode reduction of oxide films on copper in a NaOH solution. Uch. zap. Kaz. un. 117 no.9:193-197 [MIRA 13:1]

1.Kazanskiy gosudarstvennyy universitet im. V.I. Ul'yanova-Lenina. Kafedra fizicheskoy khimii. (Metallic oxides)

SOV/137-59-2-4529

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 2, p 314 (USSR)

AUTHORS: Voskresenskiy, V. A., Fayzullin, F. F.

TITLE: On the Droplet Method for the Determination of the Thickness of an

Electrolytic Coating Layer (O kapel'nom metode opredeleniya

tolshchiny sloya gal'vanicheskikh pokrytiy)

PERIODICAL: Uch. zap. Kazansk. un-ta, 1957, Vol 117, Nr 9, pp 198-200

ABSTRACT: Results are adduced on experimental work on the comparison of

readings by the droplet and the gravimetric methods for the determination of the thickness of electrolytic coatings. Specimens in the form of either St-20 steel or Cu M-1 plates or rods were coated with various metals under shop conditions using ordinary standard electro-

lytes. At first the thickness was determined by the gravimetric method; then, on the same specimens, it was determined by the drop-

let method according to the empirical formula: $\sigma_{ave} = (N-1)K$, where σ_{ave} is the average local thickness, in μ , of the metal layer, N is

the number of drops of the reagent that was used in the determination,

K is the thickness of the coating in u which is removed by one drop of reagent at the given temperature. In all cases the thickness of the

Card 1/2

SOV/137-59-2-4529

On the Droplet Method for the Determination of the Thickness of an (cont.)

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coating as determined by the droplet method was lower than that determined gravimetrically. The author proposes slightly changed empirical formulae for the determination of the thickness of Ni, Zn, Ag, Cu, Sn, Cd and brass coatings by the droplet method while retaining the universally accepted values for K. 30% HNO3 is proposed as a reagent for determining the thickness of a layer of brass. The values for K at different temperatures for this type of coating have been established experimentally.

Card 2/2

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412530003-3"

FAYZULLIN, F.F.; NIKITIN, Ye.V.

Regularities in the anodic oxidation of gallium in KOH solution. Elektrokhimiia 2 no.1:112-115 Ja 166. (MIRA 19:1)

1. Kazanskiy gosudarstvennyy universitet imeni V.I. Ul'yanova-Lenina. Submitted May 27, 1965.

EWT(m)/EWP(t) IJP(c) ACC NR: AP6003502 JD/JG

SOURCE CODE: UR/0364/66/002/001/0112/0115

AUTHOR: Fayzullin, F. F.; Nikitin, Ye. V.

ORG: Kazan State University im. V. I. Ul'yanova-Lenin (Kazanskiy gosudarstvennyy

TITLE: Anodic oxidation of gallium in KOH solutions

SOURCE: Elektrokhimiya, v. 2, no. 1, 1966, 112-115

TOPIC TAGS: gallium, anodic oxidation, electrochemistry

ABSTRACT: The present article was written to fill a gap in the literature on the anodic oxidation of gallium in alkaline solutions. The investigation was based on the automatic recording of galvanostatic curves and polarization curves. The structure of anodic oxide films was studied by electron diffraction. In these investigations, 0.1 N KOH was used. The oxygen was removed by purging solutions with nitrogen. Each experiment was conducted in a freshly prepared electrolyte at 25°C. Polarization measurements showed that the formation of the primary oxide at negative potentials is preceded by cathodic liberation of hydrogen, followed by its subse-

Card 1/2

UDC: 541.138.2 : 546.681

L 21838-66

ACC NR: AP6003502

D

quent desorption from the electrode surface. When the potential is changed to a value more positive than -1.1 v vs the normal hydrogen electrode, a sharp increase in the polarization curve occurs, thus indicating the active anodic dissolution of gallium. Starting from -0.25 v, lowering of the polarization current occurs; this is associated with passivation of the gallium electrode due to formation of the anodic oxide film. The electron diffraction studies identified this film as Ga₂O₃. Several distinct regions are distinguishable on potentiostatic curves: a) formation of the primary oxide film by alkali; c) anodic dissolution of gallium via the primary oxide film with formation of gallate ions, formation of oxide film by hydrolysis of gallate ions along with the chemical dissolution of this film all take place simultaneously; d) direct anodic oxidation of the gallium electrode. Anodic liberation of oxygen takes place at high potentials (10-30 v). Orig. art. has: 3 figures.

SUB CODE: 11, 07 SUBM DATE: 27May65/ ORIG REF: 004/ OTH REF: 013

Card 2/2 nst

IJP(c) JD/JG/WB L 04773-67 EWT(m)/EWP(t)/ETI SOURCE CODE: UR/0365/66/002/004/0439/0443 ACC NRI AP6025719 AUTHOR: Fayzullin, F. F.; Baytalov, D. A. ORG: Kazan' University im. V. I. Ul'yanov-Lenin (Kazanskiy universitet) TITLE: Electrochemical behavior of titanium in alkali solutions. I. Anodic behavior of titanium in dilute alkali solutions 7/ SOURCE: Zashchits metallov, v. 2, no. 4, 1966, 439-443 TOPIC TAGS: titanium, electrochemistry, corrosion rate, corrosion resistance, solution kinetics, titanium oxide ABSTRACT: The anodic behavior of titenium in KOH solutions was studied in order to explain the causes of its passivation in alkaline solutions. Ti is self-passivating in dilute (0.1, 0.0 and 2.0 N) KOH and self-activating in concentrated (over 5.0 N) KOH solutions. The passive state in 0.1 N KOH occurs in the potential range +0.03 to +0.90 v, and in 1.0 N, from -0.03 to +0.862v; the rate of solution in the passive state is 2 and 4 microamps/cm2, respectively. Passivation in these solutions is caused by the formation of an oxide film with defective structures containing an excess of enionic components. Superpassivation of Ti was observed in the +0.90 to +1.2 v potential range. It is UDC: 620.193.42:669.295 Card 1/2

ACC	cc NR: AP6025719 uggested that this process eroxide. Orig. art. has:			is determined by the for			mation of titanium		
			art. h	as: 4 f	120ct65/	1 table. ORIG REF:	005/	OTH REF:	006
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ACC NR. AP6036105 (N) SOURCE CODE: UR/0365/66/002/006/0623/0627	
AUTHOR: Fayzullin, F. F.; Levina, V. K. CRG: Kazan State University im. V. I. Ul'yanov-Lenim (Kazanskiy gosudarstvennyy	
universitet/ control in alkaline solutions	
SOURCE: Zashchita metallov, v. 2, no. 6, 1966, 623-627	
ABSTRACT: The subject of the experiments was electrolytic thromagnetic study. The electrode was a plate with a total surface of 3 cm ² . An electronographic study was made of the structure of the surface of the electrode, and the electrolyte was was made of the structure of the surface of the experimental data, curves are given analyzed for sesquivalent chromium. Based on the experimental data, curves are given analyzed for sesquivalent chromium in 1 and 10 N solutions of KOH; dependence of the electrode; for: polarization of chromate ions in the solution on the potential of the electrode; concentration of chromate ions in the solution on the potential of the electrode; dependence of the chromium potential on time in anodic polarization; and the potential dependence of the chromium in the passivation region. The following drop after polarization of chromium in the passivation region.	L ne
conclusions were drawn: 1) the passivated film has a first stage of anodic polarization, of an absorption oxide of the type 101 om ads. first stage of anodic polarization, of an absorption oxide of the type 101 om ads. first stage of anodic polarization, of an absorption oxide of the type 101 om ads. first stage of anodic polarization, of an absorption oxide of the type 101 om ads.	İ
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ACC NR: AP6036105 p-type conductivity; 3) the passage of chromium into solution during the stage of passification takes place through an oxide semiconducting film. Orig. art. has: 4 figures and 1 table. SUB CODE: 11, 20/ SUBM DATE: 03Jan66/ ORIG REF: 018/ OTH REF: 008						4			
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ACC NR: AP7004492

SOURCE CODE: UR/0364/67/003/001/0120/0122

AUTHORS: Fayzullin, F. F.; Nikitin, Ye. V.; Gudina, N. N.

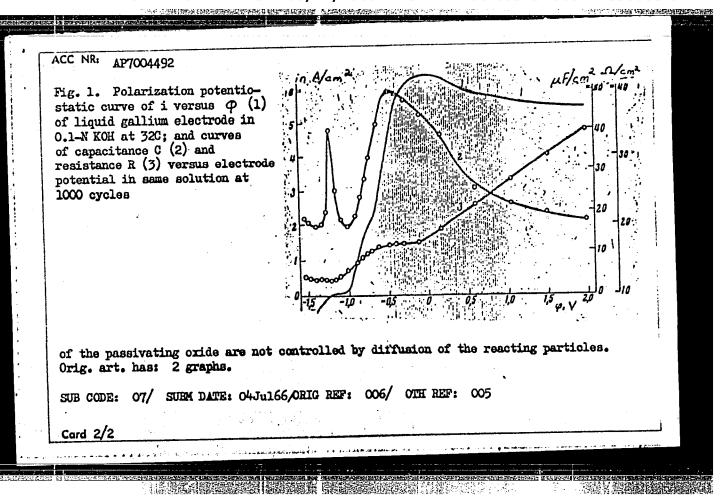
ORG: Kazan State University im. V. I. Ul'yanov-Lenin (Kazanskiy gosudarstvennyy universitet)

TITLE: On the mechanism of the formation of anode films on liquid gallium

SOURCE: Elektrokhimiya, v. 3, no. 1. 1967, 120-122

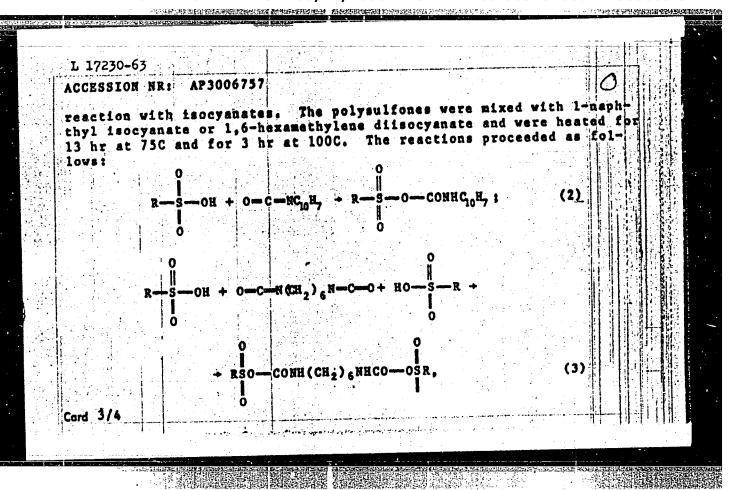
TOPIC TAGS: gallium, electrode, electrode potential, mercury alloy, mercury compound, potassium compound, electric impedance, electrolyte, electric resistance, electric capacitance, gallium compound, CXIDE FORMATION, LIQUID METAL

ABSTRACT: The mechanism of the formation of anode oxide films on a liquid gallium electrode in alkali solutions is studied. The electrode design is described by T. I. Lezhava, A. T. Vagramyan (Izv. AN SSSR, Ser. khim., No. 3, 435, 1964). The purity of the gallium was 99.999%. A mercury-mercurous oxide electrode served as the comparison electrode. The KOH solutions were prepared by dissociation of potassium amalgam in doubly distilled water; all tests were at 32C. Polarization potentiostatic curves were plotted (see Fig. 1). Alternating current of 100-20 000 cycles was applied to the gallium electrode and to a platinum-plated platinum disk over the surface of the electrode under study. The electrode impedance was also measured. It was found to be probable that active dissolution of the gallium electrode and the formation and growth



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ACCESSION NR: AP3006757	4
The reaction proceeded according to the equation:	
CH — CH [-CH — CH — SO ₂ —]	
CH — CH n	
where R is -CH - C-H - C-H - T - C-H Iso C_H T - C_L	Hopiso, or
of the polysuitone of the polysu	bit good
adhesion to glass, porcelsin, paper, and cloth and do no	sphorus-
containing polysulfones are slightly soluble in many org	anic sol- methanol
and slightly soluble in bensene. Evidently the molecular	low at room
temperature. Viscosity of the polysulfones was measured	alculated
to be in the 0.054-1.550 range. It was assumed that the have -SO ₂ OH end groups. Curing of the polysulfones was	S DOIAPRYTONES:
Card 2/. 4	



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1-naphthyl isocyanate dinal polysulfone, but whexamethylene diisocyan insoluble in benzene exproduct is a light yell. The reaction is of part	cular-weight radical. The lid not differ in appearance highly viscous. The late fled to the formation wen after prolonged heating cicular interest since it in to modify their proper	nce from the oreaction with of solids whing. The puriful point of 115-	1.6- .ch are !ied -120C.
ASSOCIATION: Kazanskiy M. Kirova (Kazan' Insti SUBMITTED: 24Feb62	khimiko-tekhnologichesk tute of Chemical Technol DATE ACQ: 30Sep63	ogy)	1. S.
SUB CODE: CH, MA	NO REP SOV: 006	other:	010

I. 39481-66 ENT(m)/ENP(j) RM/GD

ACC NR: AP6002514

SOURCE CODE: UR/0286/65/000/023/0018/0018

AUTHORS: Zhilyayev, G. G.; Fayzullin, I. N.; Nikolayeva, V. G.

ORG: none

TITLE: A method for obtaining diols containing phosphorus and nitrogen. Class 12, No. 176586

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 23, 1965, 18

TOPIC TAGS: phosphorus, nitrogen, diol, phosphinic acid, ethanol, sodium compound

ABSTRACT: This Author Certificate presents a method for obtaining diols containing phosphorus and nitrogen. In this method, dietholamine is interacted with dialkyl esters of alkylene phosphinic acids in the presence of sodium ethylate while being heated. The heating may be conducted at 60--70C.

SUB CODE: 07/ SUBM DATE: 03Sep64

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UDC: 547.419.11438.1.07

ACCESSION NR: AP4042192

8/0190/64/006/007/1318/1322

AUTHOR: Kuznetsov, Ye. V., Faysullin, I. N., Merslyakova, E. Ya.

TITLE: Synthesis of phosphoorganic polysulfones. III. The reaction of sulfur dioxide with unsaturated phosphoorganic polyesters

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 6, no. 7, 1964, 1318-1322

TOPIC TAGS: polyester, interfacial condensation, vinylphisphinic acid, Beta-(n-butoxy) vinylphosphinic acid, diphenol, dichloroanhydride, hydroperoxide, dichloroethane, dioxane, sulfur dioxide, polymer hardening, polymerization initiator, phosphoorganic polyester, unsaturated polyester, polymerization catalyst, polysulfone, phosphoorganic polysulfone

ABSTRACT: Several unsaturated phosphoorganic polyesters were synthesized by the interfacial condensation of the dichlorides of vinylphosphinic and β -(n-butoxy) vinylphosphinic acids, and their properties were investigated. The resulting polyesters are liquid or solid resins of various colors, depending on the initial reactants. The tabulated data on the properties of the synthesized polyesters show that for polyesters obtained by the interaction of diphenols with the dichloroanhydrides of alkylenephosphinic acids the specific viscosity

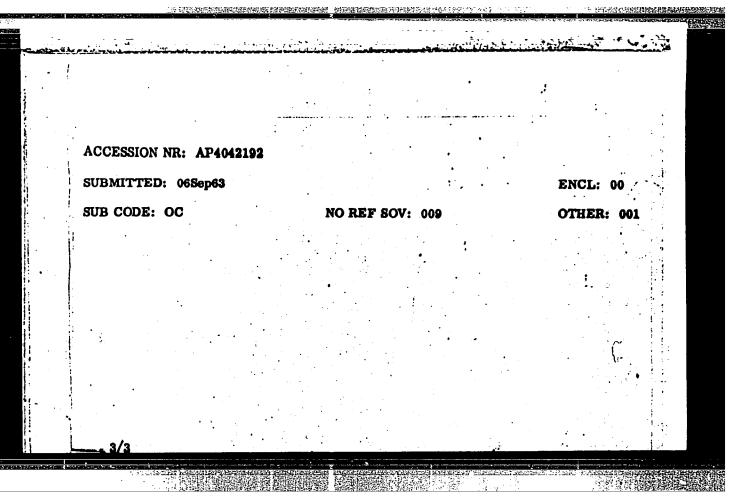
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ACCESSION NR: AP4042192

increases during the transition from diphenylolpropane to resorcinol to hydroquinone. The main product is a cross-linked polymer which is insoluble in organic solvents and melts with decomposition. The equations for the reaction of unsaturated phosphoorganic polyesters with sulfur dioxide are given. The experimental data show that polyesters based on β -(n-butoxy) vinylphosphinic acid do not react with sulfur dioxide, apparently because of steric factors. With the other polyesters, when dichloroethane, dioxane or their mixture are used as solvents and the initiator is isopropylbenzene hydroperoxide, the reaction proceeds with evolution of heat. The resulting products do not dissolve in dichloroethane, dioxane or other organic solvents. A change in the reaction conditions does not lead to an increase in the amount of sulfur in the polymer. The curves relating the degree of hardening and the amount of initiator show that an increase in the amount of initiator decreases the formation of an insoluble residue. This is explained by the assumption that the addition of an increased amount of hydroperoxide forms a compound containing SO₂H groups with the cross-linked polymer.

ASSOCIATION: Kazanskiy khimiko-tekhnologicheskiy institut im. 8. M. Kirova (Kazan Chemical-Engineering Institute)

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1, 13295-66 EWT(m)/T/EWP(j) RM	•	
CC NR: AP6000330 SOURCE CODE: UR/0286/65/000/02	1/0019/0019	
NVENTOR: Kuznetsov, Ye. V.; Fayzullina, D. A.; Fayzullin, I. N.; Pras Yurikova, R. P.	solova, T. N.	
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RG: none	n	
TTLE: A method for producing polysulfonates which contain phosphorus.	. Class 12,	
OURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 21, 1965, 19		
OPIC TAGS: polymer, organic phosphorus compound, sulfonation, SULFU	R COMPOUND	
BSTRACT: This Author's Certificate introduces a method for producing ates which contain phosphorus. New polymers are produced by interactionides with organophosphorus compounds which contain hydroxyl radicals	ing disulfoch	1-
UB COLE: 07/ SUBM DATE: 06Jul62/ ORIG REF: 000/ OTH REF: 000		
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ACC .NR: AP6001870 L 11520-66 EWT(m)/EWP(j) AUTHORS: Kuznetsov, Ye. V.; Fayzullina, D. A.; Payzullin, I. N.; Prosolova, T. N.; SOURCE CODE: UR/0190/65/007/012/2146/2149 Avvakumova, N. I. ORG: Kazan' Chemico-Technical Institute im. S. M. Kirov (Kazanskiy khimiko-TITLE: Interaction of aromatic disulfochlorides with dimethylol-containing organophosphorus compounds. 2nd communication in the series Phosphorus-containing orkano-SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 12, 1965, 2146-2149 TOPIC TAGS: polymer, polymerication, organic phosphorus compound, organic sulfur ABSTRACT: This work was performed to extend the previously reported results of Ye. V. Kuznetsov, D. A. Faysullina, and R. P. Tyurikova (Vysokomolek. soyed., 7, 761, 1965) and particularly to investigate the possibility of synthesizing linear polysulphonates on the basis of aromatic disulfochlorides and dimethyl-containing phosphorus organic compounds. The following phosphorus-containing polysulfonates phosphorus organic compounds. The rollowing phosphorus-containing polysulfonates based on bis-methylolphosphinic acid? propyl-, isopropyl-, isobutyl-, dimethylolphosphines and benzene-, toluene-, chlorobenzene-, diphenyl-, maphthalinedisulfo-chlorides/were synthesized. The reactions were carried out either in the melt or **Card** 1/2 UDC: 541.64+678.86 FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412530003-3 in n-heptane at 70-1300. Several physical properties, e.g., refractive index, It was solved the results were tabulated. It was in n-heptane at 70-1300. Several physical properties, e.g., refractive index, It was solubility, viscosity, etc. were studied, and the results were acid hardened when found that polysulfonates derived from bis-methylol-phosphinic acid hardened with discovanates. Orig. art. has: 2 tables and 4 equations. L 11520-66 ACC NRI AP6001870 SUB COLE: 0711/ SUBM DATE: 29Jan65/ ORIG REF: 003/

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BAREYEV, R.A.; PAYZOLLIK, L.D.

Time of the formation of local structures and the oil fields of the Yelabuga-Bondyug zone of uplifts. Geol. nefti i gaza 8 no.8:39-44 Ag *64. (MIRA 17:8)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412530003-3"

FAYZULLIN, M.

Economic and statistical analysis of the operational costs of grain receiving enterprises in the Tatar A.S.S.R. Muk.-elev. prom. 29 no.7:14-17 Jl 163. (MIRA 17:1)

1. Kazanskiy finansovo-ekonomicheskiy institut.

ZIMINOV, N.V.; SMIRNOV, Yu.T.; FAZLULLIN, M.I.

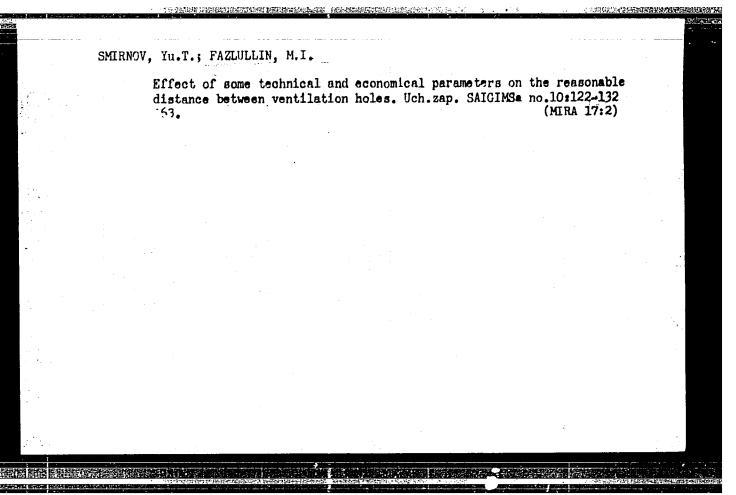
Comparative evaluation of various ways of drilling ventilation holes. Uch. zap. SAIGIMSa no.7:241-248 '62. (MIRA 17:2)

l. Sredneaziatskiy nauchno-issledovateliskiy institut geologii i mine-ralinogo syriya, Tashkent i Kanimansurskaya geologo-razvedochnaya eks-peditaiya.

SMIRNOV, Yu.I.; FAZLULLIN, M.I.

Approximate method of determining an efficient distance between ventilation holes. Izv.vys.ucheb.zav.; geol.i razv. 5 no.3:123-130 Mr 162. (MIRA 15:4)

1. Kan-i-Mansurskaya geologorazvedochnaya ekspeditsiya. (Mine ventilation) (Boring)



FAYZULLIN, M. KH.

20133 FAYZULLIN, M. KH. Travmatizm v zheleznodorozhiykh. depo. Sbornik trudov vracheb.-san sluzhby kazansk. Zh. d., Vyp. 2, 1948, s. 7-15.

SO: LETOPIS ZHURNAL STATEY, Vol. 27, Moskva, 1949

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PAYZULLIN, M.Kh., professor; MITTEL'BERG, Ya.B.

Reactions to pneumoencephalography in traumatic encephalopathy with an epileptic syndrome. Vop.neirokhir. 20 no.2:54-55 Mr-Ap '56.

(MEA 9:7)

1. Is kafedry rentgenologii i is neyrokhirurgicheskoy kliniki Kazanakogo gosudarstvennogo instituta usovershenstvovaniya vrachey imeni V.I.Lenina

(REALE, wounds and inj.

causing epileptic synd., pneumoencephalography)

(WOUNDS AED IEURIES

brain, causing epileptic synd., pneumoencephalography)

(MPILEFSI

post-traum. epileptic synd. in brain inj.,
pneumoencephalography)
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FAYZULLIN, M.Kh.

Roentgenodiagnosis of sinuitis of the maxillary sinuses. Vest. rent. i rad. 32 no.1:12-14 supplement '57 (MIRA 10:5)

Is kafedry rentgenologii i radiologii Kasanskogo instituta usovershenstvovaniya vrachey imeni V.I. Lenina.
 (SINUSITIS, diag.
 x-ray diag. in maxillary sinsitis)

ADRIANOVSKIY, A.F.: GOL'DSHTEYN, D.Ye., prof.: GOL'DSHTEYN, M.I.; MITTEL'BERG, Ya.B.: SUKHORUKOV, B.Z.; FAYZULLIN, M.Kh., prof.

Seventh All-Union Congress of Radiologists. Kaz.-med.zhur. 40 no.2:99-102 Mr-Ap 159. (MIRA 12:11)

1. Zaslushennyy deyatel nauki Tatarskoy ASSR (for D.Ye.Gol'd-shteyn).

(RADIOLOGY, MRDICAL--CONGRESSES)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412530003-3"

CIA-RDP86-00513R000412530003-3

FAYZULLIN, M.Kh., prof.

Radiographic diagnosis of cancer of the accessory masal simuses. Kaz.med.shur. 40 no.4:57-64 J1-Ag 159. (MIRA 13:2)

1. Iz 1-y kafedry rentgenologii i radiologii (saveduyushchiy - prof. M. Th. Payzullin) Kazanskogo Gosudarstvennogo instituta dlya spetsializatsii i usovershenstvovaniya vrachey imeni V.I. Lenina (GIDUV). (NOSE, ACCESSORY SINUSES OF-CANCER)

FAYZULLIN, M.Kh., prof.

Survey of the activities of the Society of Roentgenologists and Radiologists of the Tatar A.S.S.R. in 1959. Vest. rent. i rad. 35 no. 5:79-80 My-Je 160. (MIRA 14:2)

1. Predsedatel' pravleniya obshchestva rentgenologov i radiologov Tatarskoy ASSR.

(TATAR A.S.S.R. RADIOLOGICAL SOCIETIES)

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APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412530003-3"

FAYZULLIN, Midkhat Kharisovich, prof.; RAFIKOV, M.M., red.; KHUSNUTDINOV, Sh.S., tekhn. red. [X-ray diagnosis of lesions of the skull and some problems of pneumoencephalography] Rentgenodiagnostika povrezhdenii mozgovogo cherepa i nekotornye voprosy pnevmoentsefalografii. Kazan', Tatarakoe knizhnoe izd-vo, 1961. 194 p. (MIRA 15:6) (SKULL-WOUNDS AND INJURIES) (ENCEPHALOGRAPHY)

(BRAIN-WOUNDS AND INJURIES)

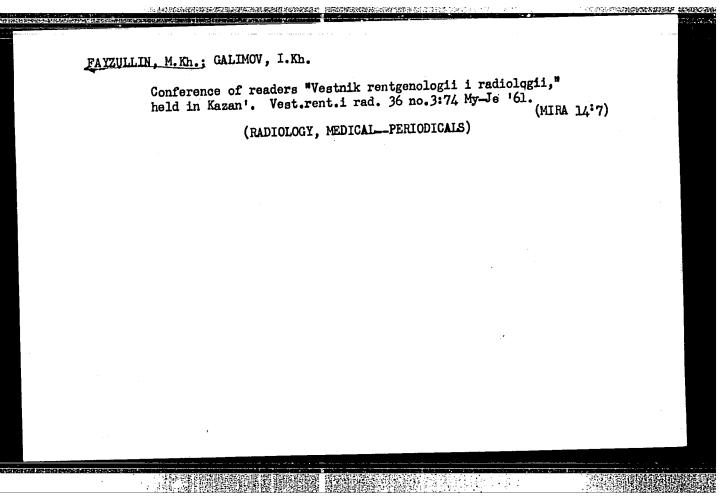
CIA-RDP86-00513R000412530003-3" **APPROVED FOR RELEASE: 08/22/2000**

FAYZULLIN, Midkhat Kharisovich, prof.; AL'TSHULER, L.I., red.; SENCHILO, K.K., tekhn. red.

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[X-ray diagnosis of diseases and injuries of the accessory nasal sinuses] Rentgenodiagnostika zabolevanii i povrezhdenii pridatochnykh polostei nosa. Moskva, Medgiz, 1961. 212 p. (MIRA 15:7)

(NOSE, ACCESSORY SINUSES OF-RADIOGRAPHY)



FAYZULLIN, M.Kh., prof.; GALIMOV, I.Kh. (Kazan')

Bromine content of the blood during roentgenotherapy for adenomas of the pituitary and diencephalic syndromes. Klin.med. 39 no.4:128-131 '61. (MIRA 14:4)

1. Iz nervnoy kafedry rentgenologii i radiologii (zav. - prof. M.Kh. Fayzullin) Kazanskogo instituta usovershenstvovaniya vrachey imeni V.I. Lenina.

(PITUITARY BODY.—TUMORS) (DIENCKPHALON.—DISEASES)

(BROMINE IN THE BODY)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412530003-3"

FAYZULLIN, M.Kh., prof.; ZYABBAROV, A.A., kand.med.nauk (Kazan')

First All-Russian Congress of Roentgenologists and Radiologists and the First All-Russian Conference on Fluorography (August 28-31, 1961, Kuybyshev Province). Kaz. med. zhur. no.1:98 Ja-F '62.

(DIAGNOSIS, FLUOROSCOPIC—CONGRESSES)

(RADIOLOGY, MEDICAL—CONGRESSES)

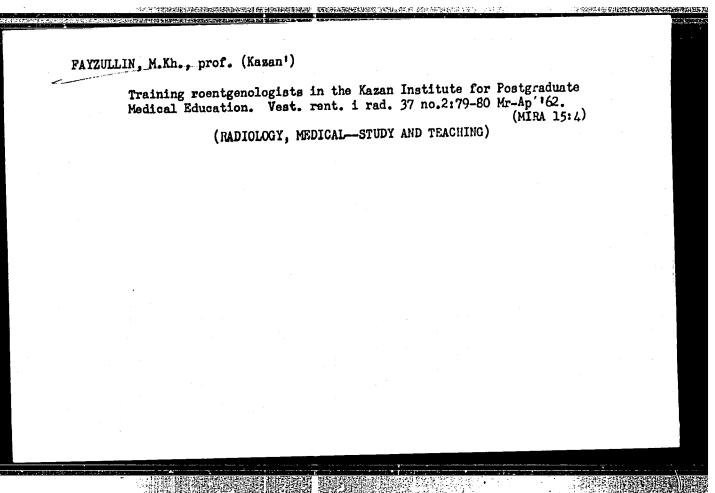
APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412530003-3"

FAYZULLIN, M.Kh.; FAYZULLIN, A.M.

X-ray diagnosis of retention cysts of the frontal sinuses. Vest. rent. i rad. 37 no.2:29-32 Mr-Ap 162. (MIRA 15:4)

1. Iz pervoy kafedry rentgenologii i radiologii (zav. - prof. M.Kh. Fayzullin)Kazanskogo instituta usovershenstvovaniya vrachey imeni V.I.Lenina otolaringologii (zav. - prof. N.N.Lozanov) Kazanskogo gosudarstvennogo meditsinskogo instituta. (FRONTAL SINUS-RADIOGRAPHY) (CYSTS)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412530003-3"



RAKHLIN, L.M., prof.; SOKOLOV, N.V., prof.; MONASYPOVA, M.V.;

FAYZULLIN, M.Kh., prof.; GALIMOV, I.Kh.

In the scientific medical societies of the Tatar A. S. S. R.

(MIRA 15:6)

Kaz. med. zhur. no.2:94-96 Mr-Ap 162.

(TATAR A. S. S. R.—MEDICAL SOCIETIES)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412530003-3"

FAYZULLN, M.Kh., prof. (Kazan'); KMIRIK, C.S., kand.med.nauk (Kazan');

GALIMOV, I.Kh., kend.med.nauk (Kazan').

All-Union Conference of Neurosurgeons. Kaz.med. zhur. 4:
88-89 Jl-Ag'63

(MIRA 17:2)

I-ray anatomy of the dura mater processes and venous simuses and its practical significance. Vop. neirokhir. 27 no.1:13-18

Ja-F '63.

1. Iz Pervoy kafedry rentgenologii i radiologii Kazanskogo instituta usovershenstvovaniya vrachey.

(DURA MATER—RADIOGRAPHY)

FAYZULLIN, M.Kh.

X-ray symptomatology of craniopharyngioma. Vest. rent. i rad. 39 no.4: 37-42 J1-Ag '64. (MIRA 18:7)

1. l-ya kafedra rentgenologii i radiologii (zav. - prof. M.Kh. Fayzullin) Kazanskogo instituta usovershenstvovaniya vrachey imeni Lenina.

FAT ULIATE, N. M. --

"Mater Ero ion of the Soil Goder Pribel' Raya Forest Storle Conditions in the Bashkir ASSR and Ways to Combat It." Gond Am Sci, Soil Inst, Acad Sci USSR, Moscow 1954. (REnGeol, Cet 54)

Survey of Scientific and T-chaical Disserbations Defended at USSR Higher Educational Institutions (10)

SO: Sum. No. 481, 5 May 55

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412530003-3"

TAYCHINOV, S.N.; FAYZULLIN, M.H.

Effect of surface features on dynamics of soil moisture [with summary in English]. Pochvovedenie no.10:46-53 0 58.

(MIRA 11:10)

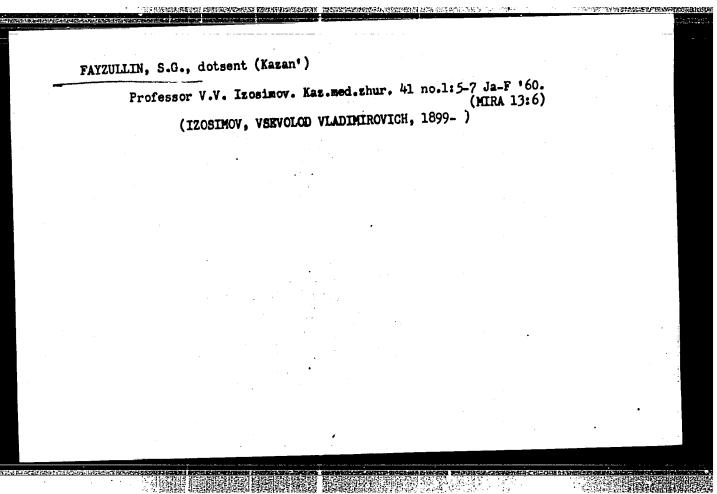
1. Bashkirskiy sel'skokhozyaystvennyy institut, Ufa. (Soil moisture)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412530003-3"

MUKHAMEDZHANOV, F.Sh., inzh.; FAYZULLIN, R.F., inzh. (Tashkent)

Mobile syphon for water intake from a flume network. Gidr. i mel.
16 no.6:56-58 Je '64.

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412530003-3"



75580 SOV/130-59-10-12/20 18.3000

Fayzullin, V. Kh. (Leader of Sheet Rolling Section of Central Plant Laboratory - TsZL) AUTHOR:

Production of Cold-Rolled Dynamo Steel TITLE:

Nr 10, pp 21-25 (USSR) Metallurg, 1959, PERIODICAL:

The techniques of cold-rolling dynamo steel were introduced at Magnitogorsk Metallurgical Combine (Mag-ABSTRACT:

nitogorskiy metallurgicheskiy kombinat). Chemical composition of the steel (in %): C: 0.04-0.06, Si: 1.2-2.0, Mn: 0.25-0.40, S: \le 0.025, P: \le 0.03, Cr: \le 0.05, Ni: \le ∠0.05, Mn: ≤0.15. Sheet sizes: 0.5 x 670 x 1,430 produced from 115 x 740 x 4,200 to 4,500 mm slabs; 0.5 x 750 x 1,500 mm produced from 110 x 810 x 4,200 to 4,500 mm ... slabs. Big-end-up 7.4-t ingots are used with bottom cross sections of 810 x 560 mm and top cross sections of 850 x 610 mm. Ingot height: 1,900 mm. The techniques were developed with a view to the facilities

available at Magnitogorsk Metallurgical Combine by Kus-Card 1/4

Production of Cold-Rolled Dynamo Steel

75580 S0V/130*-5*9-10-12/20

tabayev, G. G., Zaitsev, R. A., Kashintsev, V. V., Sckolov, V. A., and Babushkina, M. Ye. Sequence of operations: (1) heating ingots in soaking pits to 1,280-1,320° C; (2) rolling to 125 mm: (3) trimming top (14%) and bottom (2.5%); (4) rolling slats to 115 or 110 mm and cutting to necessary length; (5) inspection and scarfing; (6) heating slabs in continuous furnace: (7) rolling in continuous fine-sheet mill (10 passes) to 2.4 mm; (8) coiling; (9) edge welding; (10) pickling and washing; (11) edge shearing; (12) lubrication; (13) cold-rolling to 0.5 mm in five-stand mill; (14) 50-hr three-step annealing; (15) dressing in two-stand mill (2.0-3.0% reduction); (16) 40-hr three-step second annealing; (17) change (17) nealing; (17) shearing to size; (18) testing sheets for electromagnetic and plastic properties: (19) determination of steel quality. Dressing in a two-stand mill (1,200 mm) and second low-temperature annealing tremendously improved electromagnetic properties and decreased consumption factor per coil of metal to 1.17-1.20. The effect of silicon content on magnetic pro-

Card 2/4

Production of Cold-Rolled Dynamo Steel

75580 SOV/130*-*9-10-12/20

Table 3

Dependence of electromagnetic properties of cold-rolled dynamo steel on the content of silicon

SILICON	NUMBER OF	MAGNETIC PROPERTI			
CONTENT TEST BATCHES		8 ₂₅ GAUSS	P10/50 W/KG	P15/50 W/KG	
0,9-1,2 1,21-1,30 1,31-1,40 1,41-1,50 1,51-1,60 1,61-1,70 1,71-1,80 1,81-1,95	16 54 74 79 123 152 19 28	15700 15600 16700 15800 15700 15560 15700	3.09 3.05 2,98 2,70 2 62 2 53 2 22 2,17	6,55 6 35 6.10 5.67 5.54 5,28 4.82 4,61	

Card 3/4

Production of Cold-Rolled Dynamo Steel

75580 sov/130*-*57-10-12**/20**

perties of cold-rolled dynamo steel was determined in the course of 545 industrial tests, as shown in Table 3. Kolov, M. I., and Terekhova, G. I., of the thermal department of the Central Plant Laboratory (TsZL) studied the annealing temperature as it affects magnetic properties and grain size in dynamo steel. Watt losses were found to decrease at elevated annealing temperatures due to the considerable growth of the grain and a more complete recrystallization process. Decreased watt losses were observed after holding up to 36 hours. Advantages: (1) high plasticity (specimens withstand over 40 bends); (2) dimensional accuracy; and (3) absence of warping. There are 1 figure; and 8 tables.

ASSOCIATION:

Central Plant Laboratory of Magnitogorsk Metallurgical Combine (TsZL Magnitogorskogo metallurgicheskogo kombinata)

Card 4/4

22316

S/133/61/000/004/005/014 A054/A127

1.1300 1496, 1413, 1434

AUTHORS: Fayzullin, V. Kh., and Shubin, Ye. V.

TITLE: Cold-rolling of sheet-iron in continuous five-stand mills

PERIODICAL: Stal', no. 4, 1961, 333 - 336

TEXT: Since 1957 in the Magnitogorskiy metallurgicheskiy zavod (Magnitogorsk Metallurgical Plant) of the brands 25, 28 and 32 sheets have been cold-rolled on a continuous five-stand, four-roll mill from hot-rolled strips, 1.8 - 4.5 mm thick, 500 - 1,000 mm wide, on 400 - 500 mm diameter rolls. The rolling equipment has been improved in the past years. Reduction is now controlled automatically by flying contact micrometers, arranged after the first stand and transmitting impulses to the motor of the pressing screws when strip-thickness changes. The thickness of the strip after the last stand is measured by radio-isotope micrometers. The cold-rolled sheet is made of hot-rolled strips from 110 x 757 x 4,500 - 4,700 mm rimmed steel slabs, rolled on 1,450 mm mills, having the following composition: C:40.09% Mn: 0.30 - 0.45%; Si: traces; $P \le 0.03\%$; S: $\le 0.03\%$. Before pickling the hot-rolled strips they are cut and seam-welded. To obtain a high quality

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22310

Cold-rolling of sheet-iron in continuous...

S/133/61/000/004/005/014 A054/A127 1

weld, the difference in thickness of the strip-ends must not be more than 0.15 - 0.2 mm. Tests were carried out in co-operation with V. V. Kashintsev, G. G. Kustobayev, V. I. Kulikov, G. A. Medvedev, K. V. Denisov and F. ... Zinchenko to reduce the difference in thickness by controlling the reduction of the rear end of the strip in the finishing stands of the 1,450 mill. The thickness of the rear ends of strips is now controlled automatically on the sixth stand of the 1,450 mill by lowering the pressing screws 1 mm. Owing to this the difference between the front and rear ends does not exceed 0.2 mm in about 70 - 75% of the strips; the maximum difference is also not more than 0.3 mm. This improved the quality of welding. The number of welds rolled without rupture increased to 80 - 85% as against 40 - 45% before automation. Before coiling up, the front end of the strip, the seams and the end of the coil are rolled at a low speed while rolling between the stands and between the last stand and the winch is performed place at maximum speed. High rolling speeds and great reductions result in considerable deviations in strip-thickness. When rolling at lower rates, the changes in strip-thickness can be offset by controlling the expansion of the strip. The mill is not yet provided with an expansion regulator for the accelera-

Card 2/4

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Cold-rolling of sheet-iron in continuous...

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tion and deceleration periods. Therefore the interval of acceleration and braking should be as short as possible. A minimum accelerating and braking interval raises the productivity of the mill and makes the strip-sector with greater thickness shorter. The best minimum rate for rolling the welds and rear-ends of the strip is 4.5 - 5.0 m/sec. Extensive tests were also carried out to determine the optimum conditions of reduction (distribution of reduction on the stands, expansion between them, the convexity of the working rolls, etc.). After several variations a method was adopted, in which relative reduction on the first stand was reduced to 27% (in the first method this was 45%, in the second: 36%). Hereby it was possible to minimize the effect of the longitudinal difference in strip-thickness on the quality of the finished product. This reduction control is made possible by the application of the flying micrometers mentioned earlier. By increasing the relative reduction in the fifth stand it is possible to pass through slightly thicker strips between the fourth and fifth stand, hereby reducing the amount of ruptures. By applying this variant of reduction schemes, the rolling speed can be increased to 12 - 15 m/sec and the average output/hour from 19 tons (achieved with the first variant) to 36.1 tons. However, the application of a more intensive reduction scheme increased waste due to the

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22316

Cold-rolling of sheet-iron in continuous...

S/133/61/000/004/005/014 A054/A127

warping of sheets, as the temperature of the rolls considerably increases in the fourth and fifth stand (45 - 50°C). These unstable heat conditions and the uneven distribution of lubricants over the width of the strip deteriorated its shape. Overheating of the rolls was prevented by feeding more cooling water on the fourth and fifth stand, while the best lubrication scheme was the following; before the third stand, from 4 nozzles (2 from below, 2 from above) and before the fourth and fifth stand from 8 nozzles (4 from above, 4 from below). The lower nozzles are mounted before the tensometers, the special rolls of which spread out the lubricant over the width of the strip. As lubricant a mixture of palmoil and water (1:4) is used. There are 3 figures and 1 table.

ASSOCIATION: Magnitogorsk metallurgicheskiy kombinat (Magnitogorsk Integrated Plant)

Card 4/4

3/137/61/000/007/016/072 A060/A101

AUTHOR:

Fayzullin, V. Kh.

TITLE:

Longitudinal variation in thickness of hot rolled strips and measures

for its prevention

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 7, 1961, 5, abstract 7D31 ("Tr. Konferentsii: Tekhn progress v tekhnol, prokatn, proiz-va".

Sverdlovsk, Metallurgizdat, 1960, 562-571)

The longitudinal variation in thickness of strips was studied by TEXT: measuring the thickness during pickling and on the cutting unit. It was established that: 1) the difference in thickness of the rear and front ends of the strip varies between 0.03 and 0.46 mm; 2) thickness of the rear ends exceeds the thickness of the middle of strips by 0.3 to 0.47 mm; 3) the difference in thickness between the front ends and the middle of strips varies between - 0.02 and + 0.18 mm; 4) thickness of the front ends of strips is less than thickness of the middle over the length 800 - 1,000 mm. The automatic adjustment of the rear end of strips at the 6-th stand reduces the thickness variation at the ends by a factor of 2 - 2.5. V. Pospekhov

[Abstracter's note: Complete translation]

Card 1/1

SHUBIN, Ye.V.; FAYZULLIN, V.Kh.

Cold rolling of sheet iron on a continuous five-stand mill. Stal:
2l no. 4:333-336 Ap '6l.

(MIRA 14:4)

1. Magnitogorskiy metallurgicheskiy kombinat.

(Rolling (Metalwork)) (Sheet iron)

PALOCHKIN, V.A., inzh.; FAYZULLIN, V.Kh., inzh.; SHUBIN, Ye.V., inzh.

Determining power parameters of a two-stand cold rolling mill and the effect of cold-rolling conditions on the strength properties of sheet steel. Sbor. trud. TSNIICHM no.28:62-73 '62. (MIRA 15:11) (Rolling mills) (Sheet steel)

FAYZULLIN, V.Kh.inzh.; KASHINTSEV, V.V., inzh.; Prinimali uchastiye:
MISHIN, Yu.A.; VINOGRADOV, L.G.; VINOGRADOVA, S.I.

Method of reducing thickness variations in cold-rolled strip.

Stal! 22 no.3:249-252 Mr *62. (MIRA 15:3)

1. Magnitogerskiy metallurgicheskiy kombinat.
(Rolling (Metalwork)) (Automatic control)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412530003-3"

FAYZULLIN, V.Kh., inzh.; RADYUKEVICH, V.L., inzh.

Optimum shape in cross section of strips for sheet steel manufacture. Stal! 22 no.10:934-936 0'62. (MIRA 15:10)

 Magnitogorskiy metallurgicheskiy kombinat. (Rolling (Matalwork))

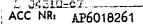
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FAYZULLIN, V.Kh.; MEL'TSER, V.V.; GALEYEV, I.; FAYNEERG, L.B.; MIROSHNIKOV, I.K.

Effect of the initial shape of working rolls of continuous mill finishing stands on the shape of the rolled strip section. Stal' 23 no.7:624-627 Jl '63. (MIRA 16:9) (Rolling (Metalwoork)) (Rolls (Iron mills))

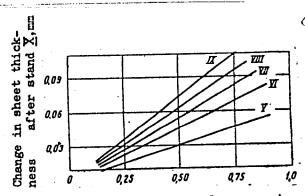
APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412530003-3"

LIP(c) JD/HM SOURCE CODE: UR/0133/66/000/002/0146/0151 04310-67 EMP(k)/EWI(m)/EMP(t)/EII ACC NR: AP6018261 (N) AUTHORS: Boyarshinov, M. I. (Professor); Fayzullin, V. Kh. (Engineer); Karlik, M. I. (Engineer) 31 ORG: none 13 TITLE: Investigation into the causes of longitudinal thickness nonuniformity and its elimination during continuous strip rolling SOURCE: Stal', no. 2, 1966, 146-151 TOPIC TAGS: sheet metal, steel, carbon steel, steel forging, metal rolling / St2 steel, O8kp steel, 15kp steel, St3 steel ABSTRACT: The parameters which determine the thickness of continuously rolled sheets were investigated. The investigation was carried out on the sheet-metal rolling mill 1450 of the Magnitogorskiy Metallurgical Concern (Magnitogorskiy metallurgicheskiy kombinat). The effect of rolling temperature and tension on the thickness uniformity of low-carbon steel sheets was studied. The stand temperatures were calculated after the method of P. Lee, R. Sims, and H. Wright (Iron and Steel, 1962 v. 35, No. 14, p. 624--627), and the deformation resistance as a function of the rate of deformation, the temperature, and magnitude of compression was calculated after V. I. Zyuzin, M. Ya. Browman, and A. F. Mel'nikov (Soprotivleniye deformatsii staley pri goryachey prokatke, Izd. Metallurgiya, 1964, str. 211--233). The experimental results are presented in UDC: 621.771.24 Card



graphs and tables (see Fig. 1).

Fig. 1. Dependence of the decrease of sheet thickness Δ on the change in the position of compression bolts z, for stands V-IX, for additional pressure applied to these stands.



Change in the position of compression bolts z,m.

The following relationship between the distribution of the rolling stand pressure and the change in the sheet thickness was established

$$\Delta h_i = z_n \sum_{k=0}^m \frac{v_n}{v_{n+1}} \cdot \frac{1}{w_{n+1}},$$

where Δh_i is the change in longitudinal thickness, z_n - the position of compression bolt, v_n - rate of rolling, and $w = z/\Delta$. The indexes n and n + 1 refer to the stand numbers. It is concluded that an accurate knowledge of the relationship ω permits an accurate control of sheet thickness. Orig. art. has: 2 tables, 5 graphs, and 2 equations.

Card 2/2 Δ SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 004/ OTH REF: 001

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000412530003-3"

KUZNETSOV, Ye.V.; PROKHOROVA, I.P.; FAYZULLINA, D.A.

Chemical transformations of polystyrene. Vysokom.soed. 3 no.10: 1544-1548 0 161. (MIRA 14:9)

l. Kazenskiy khimiko-tekhnologicheskiy institut imeni S.M. Kirova. (Styrene polymers)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412530003-3"

EWT(a)/EPF(c)/EWP(j)/T L 57092-65 Pc-4/Pr-4 WW/RM

ACCESSION NR: AP5013049 UR/0190/65/007/005/0761/0764 541.64

estatemente de la company
AUTHORS: Kuznetsov, Ye. V.; Fayzullina, D. A.; Tyurikova, R. P.

TITLE: Reaction of aromatic disulfochlorides with trimethyl- and tetramethylbearing organophosphorus compounds

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 5, 1965, 761-764

TOPIC TAGS: aromatic compound, organo metallic compound, chloride, polycondensation, polymeric structure

ABSTRACT: Phosphorus-bearing polysulfonates (by reaction of aromatic disulfochlorides with organophosphorus compounds containing three and four methylene groups, were synthesized. The initial material used was tetramethylolphosphonium caloride (TAPCh), trimethylphosphine (TMFh), and benzene, toluene, and chlorobenzene sulfochlorides. When TMFCh reacts with disulfochlorides, formaldenyde is formed. This means, as expected, that TMPCh enters the reaction as an exide of DMPh. Polyaulfonates are obtained by polycondensation in a melt, without catalyst, during agitation in a current of purified nitrogen. When polysulfonates are synthesized from TMPCh, polymers with linear structure are obtained

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ACCESSION NR: AP5013049

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when the mass is heated to 1200. When the temperature is raised to 135-1400 a steric structure is obtained. Polycondensation of disulfochlorides with TMPh occurs at 90-1200; elevation of the temperature to 1400 does not produce steric structure. Polycondensation generally takes 8-9 hours. After purification, the products from TMPCh form white to light brown powder. The linear polysulfonates dissolve in dimethylformamide, 10% KOH, and concentrated sulfuric acid. The products from TMPh are brown glassy resins, and dissolve in dimethylformamide and 10% KOH. They also deliquesce on standing in air. None of the products obtained burn when introduced into a flame. The properties of the phosphorus-bearing polysulfonates are tabulated. Orig. art. has: 1 table and 3 formulas.

ASSCCIATION: Karanskiy khimiko-tekhnologicheskiy institut im. S. M. Kirova (Kazan Institute of Chemical Engineering)

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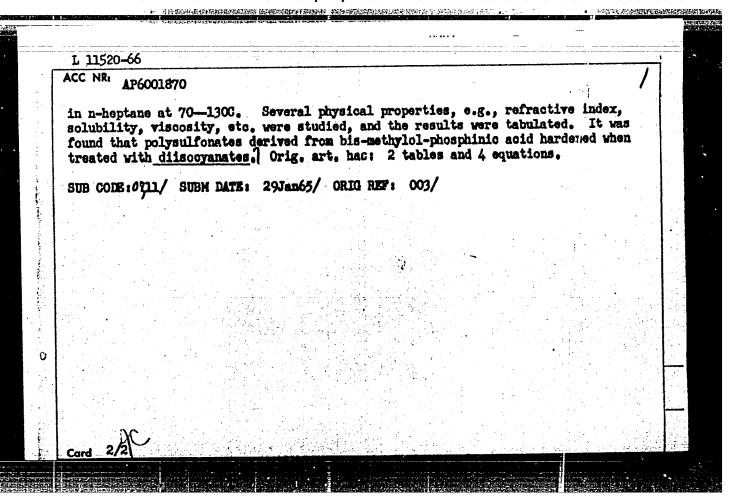
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INVENTOR: Kuzn Tyurikova, R. P	tsov, Ye. V.; Far	yzullina, D. A.;	Fayzullin, I. N	.; Prasolova, T.	<u>N.;</u>	
ORG: none				4	20	
TITLE: A metho	for producing po	olysulfonates wh	ich contain phos	phorus Class 12		
. •	en' izobreteniy i	i tovarnykh znak	ov, no. 21, 1965	, 19		
	ymer, organic pho				vo :	
ABSTRACT: This	Author's Certific ain phosphorus. anophosphorus com	cate introduces.	a method for produced by in	iucing polysulfo-		
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ND.	RPL WW/RM SOURCE CODE: UR/0190/65/007/012/2146/2149
THORS: Kuznetsov, Te. V.; Fayzuli vakumova, N. I.	lina, D. A.; Fayzullin, I. N.; Prosolova, T. N.;
G: Kazan' Chemico-Technical Inst khnologicheskiy institut)	itute im. S. M. Kirov (Kazanskiy khimiko-
TLE: Interaction of aromatic dis osphorus compounds. 2nd communic lphonates	sulfochlorides with dimethylol-containing organo- cation in the series Phosphorus-containing poly-
URCE: Vysokomolekulyarnyye soyed	lineniya, v. 7, no. 12, 1965, 2146-2149
PIC TAGS: polymer, polymerication	on, organic phosphorus compound, organic sulfur
STRACT: This work was performed . V. Kuznetsov, D. A. Fayzullina,	to extend the previously reported results of , and R. P. Tyurikova (Vysokomolek. soyed., 7, estigate the possibility of synthesizing linear
lysulphonates on the basis of arc cosphorus organic compounds. The	following phosphorus-containing polysulfonates id propyl-, isopropyl-, isobutyl-, dimethylol-chlorobenzene-, diphenyl-, naphthalinedisalfo-
osphines and benzenes, torushes, alorides/were synthesized. The read of 1/2	eactions were carried out either in the melt or UDC: 541.64+678.86



FAYZULLINA, F.Z.

Rare case of open dislocation of the tibia. Ortop., travm. i protez. 25 no.1:56-57 Ja 164. (MIRA 17:9)

1. Iz travmatologicheskogo otdeleniya (zav. - A.A.Rozhneva) stantsii skoroy pomoshchi Izhevska i TSentral'nogo instituta travmatologii i ortopedii (dir. - chlen-korrespondent AMN SSSR prof. M.V.Volkov). Adres avtora: Moskva A-299, Novaya Ipatovka, d.8, TSentral'nyy institut travmatologii i ortopedii.

FAYZULLINA, F.Z. (Izhevsk 17, Udmurtskoy ASSR, Korotkaya ul. d.51)

State of interosseous muslces in congenital syndactylia of the hand in children. Ortop., travm. i protez. 26 no.7:38-42 J1 '65. (MIRA 18:7)

1. Tz fiziologicheskoy laboratorii (zav. - kand. med. nauk T.1. Cherkasova) TSentral'nogo instituta travmatologii i ortopedii (direktor - chlen-kor-respondent AMN SSSR prof. M.V. Volkov).

FAYZULLINA, F.Z.

Some problems of surgical treatment of congenital syminatylia in children. Ortop., travm. i protez. 25 no.11:13-18 is 164.

(MiRA 18:11)

1. Iz TSentral'nogo instituta travmatologii i ortopedil (dir. - chlen-korrespondent AMN SSSR prof. M.V. Volkov). Adres avtora: Moskva A-299, Novaya Ipatovka, d.8. TSentral'nyy institut travmatologii i ortopedii. Submitted February 18, 1963.

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412530003-3"

ANDHEYEY, V.G., kandidat meditsinskikh nauk; FATEULLINA, G.A., vrach;

ZAKHAROVA, R.I., vrach.

Camsative agents of fungous disease among the inhabitants of Astrakhan'
Province. Vest.ven. i derm. no.3158 My-Je '53. (MIRA 6:7)

1. Astrakhanskiy meditsinskiy institut.

(Astrakhan' Province-Medical mycology)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412530003-3"

Clinical aspects and treatment of pretumorous and tumorcus diseases of the larynx. Nauch. trudy Kaz. gos. med. inst. 14:565-566 '64. (MIRA 18:9)

1. Kafedra otorinolaringologii (zav. - prof. N.N.Lozanov) Kazanskogo meditsinskogo instituta.

OBDIENTSEV, R.D.; BUKHAROV, V.G.; FAYZULLINA, N.K.

Complex compounds of some cyclic and aliphatic sulfides with mercury chloride. Khim.sera-i azotorg.soed.sod.v neft.i nefteprod. 3151-65 160.

1. Bashkirskiy filial AN SSSR, Otdel khimii.

(Sulfur organic compounds) (Mercury chloride)

OBOLENTSEV, R.D.; BUKHAROV, V.G.; FAYZULLINA, N.K.

Iodomethylates of some cyclic and aliphatic sulfides. Khim.sera-i azotorg.seed.sod.v neft.i nefteprod. 3:67-73.160. (MIRA 14:6)

1. Baghkirskiy filial AN SSSR, Otdel khimii. (Sulfide) (Iodomethylation)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412530003-3"

FAYZULLINA, N.K.; GUR'YANOVA, Ye.N.

Dipole moments of mercury bromide complexes with organic sulfides. Zhur. ob. khim. 34 no. 3:941-946 Mr 164. (MIRA 17:6)

1. Fiziko-khimicheskiy institut im. L.Ya.Karpova i Institut organicheskoy khimii Bashkirskogo filiala AN SSSR.

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KHOTYNTSEVA, L.1.; BOGOMOLOV, A.I.; FAYZULLINA, Ye.M.

Reduction of high-molecular weight aliphatic ketones to hydrocarbons in the presence of aluminosilicate stalysts. Dobl. AN SSSR 155 no. 5:1152-1154 Ap 164. (MIRA 17:5)

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1. Vsesoyuznyy neftyanoy nauchno-issledovatel'skiy geologo raz-vedochnyy institut. Predstavleno akademikom B.A.Kazanskim.

FAYZULLOV, F.S.

51-2-8/15 AUTHORS: Sobolev, N.N. and Rayzullov, F.S. 51-2-8/15
TITLE: A photoelectric pyrometer for measurement of the colour temperature of flames. (Fotoelektricheskiy pirometr dlya izmereniya tsvetovoy temperatury plamen). PERIODICAL: "Optika i Spektroskopiya" (Optics and Spectroscopy)

.1957, Vol.3, No.2, pp.162-168 (U.S.S.R.)

ABSTRACT: The colour temperature measurements are employed for distant objects and those whose absorption is near to a grey body but is not known exactly. The aim was to construct an instrument for measurement of the colour temperature of nonstationary and short-duration flames. The work was carried out in 1949-1950. A single-channel photoelectric pyrometer is described first. It is shown schematically in Fig.1. An objective 2 (numbers refer to Fig.1 designations) focuses an image of the flame 1 onto a slit 3. Behind the slit there is a disk 4 rotated by a motor 8 at 3000 rev/min, which carries three filters: red 7, blue 9 and green (not shown in Fig.1). The filtered light falls on a photoelement 6 which is followed by an amplifier 10 and a cathode-ray oscillograph 11. For nonstationary flames the c.r.o. display (50 c/s) was photographed with a cine camera. A typical record is shown in Fig. 2 with red, blue and green pulses from left to right. This pyrometer was calibrated with a lamp LT-1. The brightness temperatures

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A photoelectric pyrometer for measurement of the colour temperature of flames. (Cont.)

of this lamp were measured with a disappearing-filament pyrometer and these temperatures were converted, using tables, into colour temperatures given as a function of the lamp current. The lamp was placed at 1 in Fig.1 and by variation of its current for each (known) colour temperature a set of values was obtained for the ratios of the c.r.o. pulse intensities for blue and red, and for green and red. These are given in Fig. 3. The described single-channel photoelectric pyrometer is suitable only for flames which are stationary during one revolution of the filter disk (in this case 1/50 sec). It is, however, suitable for measurement of average colour temperatures. For measurement of very rapidly changing colour temperatures a twochannel photoelectric pyrometer was constructed. It is shown schematically in Fig.4, where 1 = an additional source of light for measurement of flame absorption, 2, 4 and 7 are lenses, 3 = the flame, 5 = a slit, 6 = a modulating disk with 24 aper-tures, rotated by a motor 11, 8 = a semitransparent aluminized glass plate (beam-splitter), 9 (6400 % pass-band) and 12 (4500 %) are filters, 10 and 13 are photoelements, 14, 15, 16 and 17 are amplifiers 18 is a withretion (string) assillagraph and 17 are amplifiers, 18 is a vibration (string) oscillograph,

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A photoelectric pyrometer for measurement of the colour temperature of flames. (Cont.)

19 is a "logometer", an instrument for measuring a ratio of two electrical quantities (currents). The electronic circuit is given in Fig. 5. The two-channel pyrometer was calibrated using the LT-1 lamp and the vibration oscillograph. This calibration was checked by six measurements carried out during one day using green and infrared filters. The results of this check (see Fig. 6) show that errors are of the order of 200K or 1%. The pyrometer was also calibrated between 2200 and 3100°K using an LT-2 lamp and two milliammeters instead of the vibration oscillograph. The results are plotted in Fig. 7 as the logarithm of the current ratio (log nk/nc) against the reciprocal of the colour temperature (106/T). To avoid the necessity of calculation of the current (milliammeters) or the intensity (vibration oscillograph) ratios a "logometer", which gives mean current ratios for periods of 1-2 sec, could be used. The logometer must be graduated and the temperature error does not exceed 10°K. The calibration of the two-channel pyrometer described here is valid for one working day. The two channel pyrometer can also be used for measurement of the brightness temperature

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A photoelectric pyrometer for measurement of the colour temperature of flames. (CONT.)

and the flame absorption (using an additional source of light, 1 in Fig.4). There are 9 figures; 6 references (4 of which are Slavic).

SUBMITTED: December 29, 1956. AVAILABLE: Library of Congress

Card 4/4

FAYZULLEY, F.S.

AUTHORS: Sobolev, N. N., Potapov, A. V., Kitayeva, SOV/48-22-6-23/28

V. P., Fayzullov, F. S., Alyamovskiy, V. N., Antropov, Ye. T., Isayev, I. L.

TITLE: The Spectroscopical Investigation of the State of the Gas

Behind the Shock-Wave (Spektroskopicheskoye issledovaniye

sostoyaniya gaza za udarnoy volnoy)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya fizicheskaya, 1958,

Vol. 22, Nr 6, pp. 730-736 (USSR)

ABSTRACT: This paper describes a practical method of obtaining a high-

temperature plasma for research work carried out in laboratories, viz. the method of the "shock tube" (Fig 1). The shock tube is divided by means of a diaphragm into two chambers (for high-and low pressure). As soon as high pressure develops in the high-pressure chamber the diaphragm is caused to burst, and at the same time a shock wave forms in the second chamber round the shock center - i. e. the rarefying wave. Between the fronts of the shock wave and the contacting surface a layer of gas of high temperature is formed which is here described as "lock"

high temperature is formed which is here described as local (probka). This "lock" moves with the velocity U_2 , which is

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The Spectroscopical Investigation of the State of the Gas Behind the Shock-Wave

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somewhat lower than that of the shock wave $\mathbf{U}_{\mathbf{S}}$. The temperature of the "lock" increases with a reduction of the molecular weight of the gas. If the velocity U is known, it is possible, by basing on the law of conservation of the mass, the impulse and the energy, as well as on the strength of the ratio of enthalpy, the degree of ionization, and the state of the gas, to determine the 6 unknown quantities: p_2 , q_2 , T_2 , H_2 , T_2 and α_2 relating to the state of the monoatomic gas located in the "lock". A graphical illustration of 3 states of argon and 3 states in air behind the shock wave is given. The device is described on the basis of a schematical drawing. The chapter dealing with: The Method of Relative Intensities describes the use of the device mentioned for the purpose of obtaining the spectral lines for Li and Na for measuring the temperature by the method of relative intensities. Measurements were carried out photographically and photoelectrically, without as well as with full reabsorption of spectral lines. The chapter: The Generalized Method of Reversing the Spectral Lines is based upon a paper (Ref 7) in which the said method is explained with respect to its application for

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The Spectroscopical Investigation of the State of the Gas Behind the Shock-wave

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the purpose of measuring temperature without observing a moment of reversal. In this case the optical scheme is used for carrying out the following measurements: The radiation intensity of the gas in the spectral line, the intensity of the radiation of a source employed for the purpose of comparison, and of temperature. For measuring temperature a device was used which is described by means of a schematical drawing (Fig 5). Finally, a graphical representation of the results obtained by measuring the temperatures of nitrogen and the air behind the impulse wave by means of the photoelectric method of the reversal of spectral lines is given. There are 6 figures and 7 references, 3 of which are Soviet.

ASSOCIATION:

Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SSSR (Physics Institute imeni P. N. Lebedev, AS USSR)

1. Electron gas-Spectra 2. Electron gas-Radiation 3. Spectros-copy 4. Shock tubes-Applications 5. Shock waves-Analysis

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SOV/51-6-3-3/28

AUTHORS: Sobolev, N.N., Potapov, A.V., Kitayeva, B.F., Fayzullov, F.S., Alyamovskiy, V.N., Antropov, Ye.T. and Isayev, I.L.

TITLE: Spectroscopic Studies of the State of Gas Behind a Shock Wave. I (Spektroskopicheskoye issledovaniye sostoyaniya gaza za udarnoy volnoy. I)

PERIODICAL: Optika i Spektroskopiya, 1959, Vol 6, Nr 3, pp 284-296 (USSR)

ABSTRACT: The paper describes attempts to measure the temperature behind a shock wave using relative intensities of two spectral lines. Shock waves were produced in a shock tube (Fig. 5), 9.2 cm in diameter and 4.5 m long. The high-pressure chamber I (50 cm long) was filled with hydrogen at pressures of 110-130 atm. The low-pressure chamber II (4 m long) was filled with air or nitrogen at 10 mm Hg. The two chambers were separated by an aluminum diaphragm, bursting of which produced shock waves in the low-pressure chamber. The spectrum of radiation emitted by the region behind a shock wave was recorded either photographically or photoelectrically Card 1/4 using a spectrograph ISP-51. In the latter case two photo-

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Spectroscopic Studies of the State of Gas Behind a Shock Wave. I

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multipliers (FEU-17 or FEU-22, cf. Fig.6) were used to register two spectral lines; the signals from the photomultipliers were amplified (cf. circuit in Fig.7), displayed on an oscillograph OK-17M and photographed. The shockwave velocity was found by measuring the time which it took the wave to travel between two ionization counters, denoted by Experiments were carried out at shock-wave $\Pi_{1,2}$ in Fig.5. velocities of 3-4 km/sec at which the temperatures behind shock fronts were expected to be 3500-4500°K. At these temperatures neither air nor nitrogen emits atomic lines. The authors consequently introduced small amounts of Li and Na in the form of LiCl or NaCl. The temperatures behind shock-wave fronts, calculated from the relative intensities of Li and Na lines, were highly scattered (Table 2) and the scatter varied from one line pair to another and from one experiment to another. This scatter was due to partial re-absorption, as well as to disturbance of the thermodynamic state of the gas by the comparatively Card 2/4 large amounts of salts which had to be used. Moreover,

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the salts settled on the cold walls of the shock tube and their emission was consequently concentrated near the walls (Fig.9). To ensure a uniform distribution of the emitting substances behind a shock-wave front the authors used gaseous dicyanogen in their second series of experiments. They deduced temperatures from the relative intensities of vibrational bands of cyanogen (dicyanogen dissociates at these temperatures) using the method described by Brinkman (Ref.6) and Smit (Ref.7). Again no reliable values of the temperature behind wave fronts could be obtained (Tables 3,4) because of the long time necessary to establish equilibrium distribution in vibrational degrees of freedom of cyanogen. The authors conclude that the method of relative intensities is suitable only for determination of temperatures above 5000°K; between 1500 and 5000°K the self-reversal method (Ref.6) should be

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Sov/51-6-3-3/28
Spectroscopic Studies of the State of Gas Behind a Shock Wave. I
references, of which 3 are Soviet, 2 English, 1
translation of English into Russian and 3 Dutch.

SUBMITTED: April 3, 1958.

Card 4/4

SOBOLEV, N.N.; HELOUSOV, N.M.; RODIN, G.M.; SVIRIDOY, A.G.; SKOROBOGATOV, N.G.; FAYZULLOV, F.S.

Temperature of the flame of a liquid-propellant rocket engine. Part 1. Zhur.tekh.fiz. 29 no.1:27-36 Ja '59. (MIRA 12:4)

1. Fisicheskiy institut im. P.N. Lebedeva AN SSSR, Moskva. (Rockets (Aeronautics)) (Flame) (Temperature—Measurement)

SOBOLEV, N.N.; KITAYEVA, V.F.; RODIN, G.M.; FAYZULLOV, F.S.; FHDOROV, A.I.;

Temperature of the flame of a liquid-propellant rocket engine.
Part 2. Zhur.tekh.fiz. 29 no.1:37-44 Ja '59. (MIRA 12:4)

1. Fizicheskiy institut im. P.N. Lebedeva AN SSSR, Moskva.
(Rockets (Aeronautics)) (Flame) (Temperature-Measurement)

SOV/20-127-3-17/71
AUTHORS: Fayzullov, F. S., Sobolev, N. N., Kudryavtsev, Ye. M.

TITLE: The Temperature of Nitrogen and Air Behind a Shock Wave

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 3, pp 541-544 (USSR)

ABSTRACT:

1) If a shock wave propagates in a shock tube, it is possible, by measurement of the propagation rate of the shock wave u, to calculate the temperature T₂, density Q₂, pressure P₂, and the velocity of the gas u₂ behind the shock wave if the temperature T₁, density Q₁, and pressure p₁ of the gas before propagation of the shock wave are known. For the simplification of calculation, it is assumed in thermodynamics that T and P are constant along the obstruction formed, and that the latter grows linearly with time. The agreement of the calculation carried out under these simplified conditions with the experiment is investigated in the present paper. The experimental data on T₂ and p₂ of the air and the nitro-

gen behind the shock wave were obtained by the generalized Card 1/3 method of the reversal of lines with photoelectric recording.

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The Temperature of Nitrogen and Air Behind a Shock Wave

Good agreement between experimentally and theoretically calculated data was obtained. Moreover, the temperature distribution along the obstruction was investigated in this paper, and its influence exercised upon the calculated values was evaluated. In the case of a small u, the temperature was found to remain constant along the obstruction. At a velocity of $u_g \sim 3-4$ km/sec, a sharp temperature drop, however, occurred. The two possible ways of explaining this drop are investigated: 1) The temperature along the tube is not constant, and thus also not T along the obstruction. 2) The sodium flashes up with a delay, and the temperature at the end of the obstruction is first recorded. In the second case it was found that the very slight delay of flashing up could not cause the sharp temperature drop, which could be removed, however, by thoroughly cleaning the tube. Agreement between experiment and theory then remained good. This proved the correctness of the assumptions made in thermodynamics. The method of the reversal of lines as used here may also be employed with success for measuring the temperature along the obstruction. It is recommended, at temperatures of up to

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The Temperature of Nitrogen and Air Behind a Shock Wave

3,500°K behind the shock wave, to use the Na-D-line, and at higher temperatures the ion line of Ba. The temperature distribution at the beginning of the obstruction could not be investigated. In the case of nitrogen, an increase of temperature was found to occur at the end of the obstruction, which possibly originated from a chemical reaction of N and the used combustion gas H on the contact surface. In conclusion, the authors thank A. V. Potopov and S. S. Semenov for discussing the results, and Ye. T. Antropov for his assistance in experiments. There are 4 figures and 8 references, 4 of which are Soviet.

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SSSR

(Physics Institute imeni P. N. Lebedev of the Academy of

Sciences, USSR)

PRESENTED: April 4, 1959, by D. V. Skobel'tsyn, Academician

SUBMITTED: April 4, 1959

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AUTHORS:

Obukhov-Denisov, V. V., Sidorov, T. A., Fayzullov, F. S.,

Cheremisinov, V. P.

TITLE:

The Vibration Spectrum of Vitreous Beryllium Fluoride

PERIODICAL:

Zhurnal fizicheskoy khimii, 1960, Vol. 34, No. 7,

pp. 1622-1624

TEXT: The vibration spectrum of vitreous beryllium fluoride is investigated and the results are discussed. All investigations of Raman spectra were made on a three prism spectrograph MCN (ISP)-51 and the spectra were photographed. No Raman spectrum, however, of vitreous beryllium fluoride was observed. Infrared absorption spectrum was investigated on a double radiation spectrophotometer (Ref. 2) and an intensive absorption band with a maximum at 750 cm⁻¹ was established. It is assumed that the structure of BeF₂ is neither typically ionic nor molecular. The high degree of

homopolarity of the Be - F bond shows that the valence electrons are for most of the time between Be and F atoms and guarantee the formation of

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The Vibration Spectrum of Vitreous Beryllium Fluoride

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molecules or complicated ions. The ionic character of the bond on the other hand shows that in BeF₂ molecule the atoms of Be and F possess charges and a strong interatomic interaction is present. The authors thank L. R. Batsanova and A. V. Novoselova for the BeF₂ sample and N. N. Sobolev for advice. There are 1 figure and 8 references: 6 Soviet, 1 German, and 1 American.

ASSOCIATION:

Akademiya nauk SSSR Fizicheskiy institut im. P. N. Lebedeva

(Academy of Sciences of the USSR, Physics Institute imeni

P. N. Lebedev)

SUBMITTED:

October 31, 1958

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FAYZULLOW, F. S. Cand Phys-Math Sci — (uiss) "Pyrometric investigation of the state of air nitrogen and orgon behind a shock wave," Moscow, 1960, 10 pp, 140 cop. (MoscowEngineering Physics Institute) (KL, 42-60, 111)

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5.4100 AUTHORS:

Faysullov, F.S., Sobolev, N.N. and Kudryavtsev, Ye.M.

TITLE:

A Spectroscopic Investigation of the State of Gas Behind a Shock Mave. | III.

PHRIODICAL:Optika i spektroskopiya, 1960, Vol 8, Nr 6, pp 761-768 (USSR)

ABSTRACT: The paper is a continuation of earlier work (for Parts I and II see Refs 2 and 4, where the theory, experimental procedures and treatment of results are described in detail). A 92 mm long shock tube, with either one or two diaphragms, was employed to produce shock waves of 1.9 to 4.3 km/sec velocities and with 0.1 to 4 atm pressures in the region immediately behind the shock wave (known as the "plug"). The temperatures of nitrogen and air "plugs" were measured by a generalised version of spectral line reversal (for details see Part II, Ref 4), using the D-lines of Ma and the resonance line of Ba II at 4554 A. The measured temperatures were found to fall along the length of the "pluge" (Figs 1 and 2) due to a decrease of the shock-mave velocity along the shock tube. The "plug" temperatures rose with the shock-wave velocity, Us, in satisfactory agreement with the theory: for air (Fig 5) the temperatures rose

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